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"operating system" and task and "priority level"   [Search]

The "AND" operator is unnecessary -- we include all search terms by default. [details]

Scholar   All articles - Recent articles   Results 1 - 100 of about 4,610 for "**operating system**" and task and "**priority level**". (0.46 seconds)

[PDF] ·A Linux-based real-time **operating system**
M Barabanov - 1997 - citeseerx.ist.psu.edu
... The REAL/IX **operating system** from MODCOMP 4] is monolithic ... the lowest **priority level**. ...
Each real-time **task** was presented to the system as an object module in the ...
Cited by 138 - Related articles - View as HTML - Web Search - Library Search - All 20 versions

StarOS, a multiprocessor **operating system** for the support of **task** forces
AK Jones, RJ Chansler Jr, I Durham, K Schwans, SR ... - Proceedings of the seventh ACM symposium on Operating .... 1979 - portal.acm.org
... understand the design issues related to **operating system** facilities that support
task forces. A limited Version of StarOS has been running since 1977. ...
Cited by 106 - Related articles - Web Search - All 5 versions

On-line scheduling of hard deadline aperiodic tasks infixed-priority systems
S Ramos-Thuel, JP Lehoczky - Real-Time Systems Symposium, 1993., Proceedings., 1993 - ieeexplore.ieee.org
... n. Aperiodic **task** execution at **priority level** n + 1 is ... model permits the inclusion
of many **operating system** functions and **task** synchronization using ...
Cited by 104 - Related articles - Web Search - All 3 versions

Making paths explicit in the Scout **operating system** · rutgers.edu [PDF]
D Mosberger, LL Peterson - usenix.org
... and Section 3 describes an implementa- tion of paths in the Scout **operating system**. ...
each router is a software module that im- plements a specific **task**, such as ...
Cited by 295 - Related articles - Web Search - BL Direct - All 48 versions

Real-time scheduling theory and Ada- ·cmu.edu [PDF]
L Sha, JB Goodenough - Mission-Critical Operating Systems, 1992 - books.google.com
... A hardware timer or the **operating system** clock interrupt ... the execution of higher
priority **tasks**, **task** T executes at the highest **priority level** of all ...
Cited by 299 - Related articles - Web Search - Library Search - All 26 versions

IBM Power5 chip: A dual-core multithreaded processor- ·psu.edu [PDF]
R Kalla, B Sinharoy, JM Tendler - IEEE micro, 2004 - ieeexplore.ieee.org
... threads are at the lowest run- ning **priority** (**level** 1), the ... As in the dormant state,
the **operating system** ... all the system's execut- ing **tasks** perform better ...
Cited by 274 - Related articles - BL Direct - All 39 versions

[PDF] ·A real-time Linux
V Yodaiken, M Barabanov - Proceedings of the Linux Applications Development and ... , 1997 - www-md e-technik.uni-rostock.de
... 280 KHZ no matter what we do with the **operating system**. ... of the RT-process at a low
priority level the process ... are preempted by a higher-priority **task** when its ...
Cited by 113 - Related articles - View as HTML - Web Search - All 43 versions

MANTIS OS: An embedded multithreaded **operating system** for wireless micro sensor platforms- ·rosein.com [PDF]
S Bhatti, J Carlson, H Dai, J Deng, J Rose, A ... - Mobile Networks and Applications, 2005 - Springer
... head and tail pointers for each **priority level** (5 by ... MANTIS OS : AN EMBEDDED
MULTITHREADED **OPERATING SYSTEM** ... Any **task** that is sufficiently long-lived during its ...
Cited by 133 - Related articles - Web Search - All 14 versions

[CITATION] Linux Means Business: Introducing Real-Time Linux
M Barabanov, V Yodaiken - Linux Journal, February, 1997
Cited by 33 - Related articles - Web Search

Fixed priority scheduling periodic tasks with varying executionpriority- unican.es [PDF]
MG Harbour, MH Klein, JP Lehoczky - Real-Time Systems Symposium, 1991. Proceedings., Twelfth, 1991 - ieeexplore.ieee.org
... We make the following assumptions concerning the execution behavior of any single
task: Assumption 1: Subtasks executing at a given **priority level** can be ...
Cited by 158 - Related articles - Web Search - All 3 versions

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Fixed priority pre-emptive scheduling: An historical perspective
NC Audsley, A Burns, RI Davis, KW Tindell, AJ ... - Real-Time Systems, 1995 - Springer
... The application software comprising the computational part of a real-time system
is assumed to consist of n processes, where a process (or **task**) represents a ...
Cited by 209 - Related articles - Web Search - All 3 versions

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Eliminating receive livelock in an interrupt-driven kernel- stanford.edu [PDF]
JC Mogul, KK Ramakrishnan - usenix.org
... begin by describing a typical **operating system's** structure for processing and
prioritizing network **tasks**. ... have a fixed Interrupt **Priority Level** (IPL), and ...
Cited by 357 - Related articles - Web Search - BL Direct - All 35 versions

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Monitor for **priority level** of **task** in information processing system
H Soga - US Patent 4,145,735, 1979 - Google Patents
... quently shows the frequency of use of the **priority level** ... N and the abscissa shows
each **task** of priority ... possible to add on an **operating system** and interface ...
Cited by 17 - Related articles - Web Search - All 2 versions

Operating system for a multi-tasking operating environment
MS Fletcher, RP Semma - US Patent 5,012,409, 1991 - Google Patents
... Control is then given to the ment as follows refers to the use of the **operating
system task** scheduler 20 which executes **task** segments cur- in connection with ...
Cited by 31 - Related articles - Web Search - All 2 versions

Operating system architecture using multiple priority light weight kernel **task** based interrupt ...
M Bunnell - US Patent 5,469,571, 1995 - Google Patents
... level. The **operating system** kernel includes a scheduler that selects **tasks**
for execution based on relative **task priority level**. The ...
Cited by 17 - Related articles - Web Search - All 2 versions

[PDF] Scheduling slack time in fixed priority pre-emptive systems
RI Davis, KW Tindell, A Burns - 1993 - citeseerx.ist.psu.edu
... one or more **tasks** of active **priority level** i or ... data is available via the **operating
system**, (typically derived from data stored in a **task** control block ...
Cited by 195 - Related articles - View as HTML - Web Search - Library Search - All 16 versions

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COSYN: Hardware-software co-synthesis of embedded systems- york.ac.uk [PDF]
BP Dave, G Lakshminarayana, NK Jha - Proceedings of the 34th annual conference on Design ..., 1997 - portal.acm.org
... We also take into consideration the **operating system** overheads such as interrupt
overhead, context- switch, remote ... a. **Priority level** of sink **task** t i ...
Cited by 240 - Related articles - Web Search - BL Direct - All 16 versions

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On using priority inheritance in real-time databases- kfupm.edu.sa [PDF]
J Huang, JA Stankovic, K Ramamritham, D Towsley - In Proc. Real-Time Systems Symposium, 1991 - eprints.kfupm.edu.sa
... and eventually return to its original **priority level** after using ... Unlike real-time
systems where **task** conict over ... built on top of the VAX/VMS **operating system**. ...
Cited by 96 - Related articles - View as HTML - Web Search - Library Search - All 13 versions

[PS] •Real-time linux
M Barabanov, V Yodaiken - Linux journal, 1996 - lahtermaher.org
... **priority level** = 4, stack size = 3000 bytes */ /* pass 1 to ... work to be done, the
RT **operating system** runs one ... So Linux is the lowest priority **task** of the RT ...
Cited by 71 - Related articles - View as HTML - Web Search - All 11 versions

Emulating soft real-time scheduling using traditional operatingsystem schedulers - •psu.edu [PDF]
B Adelberg, H Garcia-Molina, B Kao - Real-Time Systems Symposium, 1994., Proceedings., 1994 - ieeexplore.ieee.org
... with our goal of setting process priorities and then letting the **operating system**
handle everything ... If a new **task** arrives and no **priority level** is available ...
Cited by 48 - Related articles - Web Search - Library Search - All 18 versions

[PDF] •A model for an intelligent **operating system** for executing image understanding tasks on a ...
CH Chu, EJ Delp, LH Jamieson, HJ Siegel, FJ Weil, ... - Journal of Parallel and Distributed Computing, 1989 - engr.colostate.edu
... a unique name, an optional **priority level**, and an ... simple example image understanding
task is presented ... parallel processor by the Intelligent **Operating System**. ...
Cited by 26 - Related articles - View as HTML - Web Search - All 6 versions

[PDF] •Preemptive priority based scheduling: An appropriate engineering approach
A Burns - 1993 - eprints.kfupm.edu.sa
... It should be noted that a full **operating system** is not required, only a micro-kernel ...
If a **task** attempts to run over its budget it has an exception raised to ...
Cited by 150 - Related articles - View as HTML - Web Search - Library Search - All 17 versions

Thoth, a portable real-time **operating system** - •ucsd.edu [PDF]
DR Cheriton, MA Malcolm, LS Melen, GR Sager - 1979 - portal.acm.org
... of the new process; the default **priority level** is 0 ... **Operating system** portability
is aimed at a problem most ... Moreover a major **task** for the manufac- turer of a ...
Cited by 148 - Related articles - Web Search - Library Search - All 4 versions

... and non-preemptive scheduling and execution of program threads in a multitasking **operating system**
JA Farrell, SE Record, BK Wade - US Patent 5,247,675, 1993 - Google Patents
... be programmed to voluntarily relinquish control of its titasking **operating**
system. ... have the same **priority level**. A **task** control block is ...
Cited by 37 - Related articles - Web Search - All 4 versions

Distributed scheduling of tasks with deadlines and resourcerequirements - •googlecode.com [PDF]
K Ramamritham, JA Stankovic, W Zhao - IEEE Transactions on Computers, 1989 - ieeexplore.ieee.org
... When a **task** arrives at a node, the local scheduler at that node attempts to guarantee
that the **task** will complete execution before its deadline, on that node. ...
Cited by 271 - Related articles - Web Search - Library Search - All 9 versions

Atalanta: A new multiprocessor RTOS kernel for System-on-a-Chip Applications - •gatech.edu [PDF]
DS Sun, DM Blough, VJ Mooney III - 2002 - smartech.gatech.edu
... The kernel level contains the simplest **operating system** routines, such as scheduling
routines ... ID on which the **task** is running,the **task priority level**, and the ...
Cited by 40 - Related articles - View as HTML - Web Search - Library Search - All 6 versions

Scheduling aperiodic tasks in dynamic priority systems - •psu.edu [PDF]
M Spuri, G Buttazzo - Real-Time Systems, 1996 - Springer
... An **operating system** capable of guaranteeing and executing **tasks** ... already "allocated"
to a **priority level** corresponding to its deadline when the **task** set has ...
Cited by 253 - Related articles - Web Search - BL Direct - All 20 versions

Implementing a general real-time scheduling framework in theRED-Linux real-time kernel - •kfupm.edu.sa [PDF]
YC Wang, KJ Lin - Real-Time Systems Symposium, 1999. Proceedings. The 20th ... , 1999 - ieeexplore.ieee.org
... the system builder to choose an **operating system** that may ... ecute at either an upper
or lower band **priority level**. Upon release, each real-time **task** assumes its ...
Cited by 92 - Related articles - Web Search - All 15 versions

Operating System Modifications for Task-Based Speed and Voltage- ·kfupm.edu.sa [PDF]
JR Lorch, AJ Smith - Proceedings of the 1st international conference on Mobile ..., 2003 - portal.acm.org
... it would run even when the **operating system** was upgraded. ... in Section 2.4: we consider
a **task** complete when ... the system above the idle **priority level** are blocked ...
Cited by 48 - Related articles - Web Search - All 12 versions

Hardware implementation of a real-time **operating system**
T Nakano, A Utama, M Itabashi, A Shiomi, M Imai - TRON Project International Symposium, 1995., Proceedings of ... · ieeexplore.ieee.org
... of a Real-time **Operating System** ... on an FPGA implemen- tation, hardware portion of
these functionalities can be executed within 250ns and the **task** scheduling can ...
Cited by 25 - Related articles - Web Search - BL Direct - All 8 versions

Programmable controller with multiple **priority level task** processing
MA Flood, MD Kalan, PN Preis, AL Peterson... - US Patent 5,193,189, 1993 · Google Patents
... 54] PROGRAMMABLE CONTROLLER WITH MULTIPLE **PRIORITY LEVEL TASK** PROCESSING [75 ... When
the **operating system** accesses the location at ... than any background **tasks** to be ...
Cited by 43 - Related articles - Web Search - All 2 versions

The Click modular router- ·psu.edu [PDF]
E Kohler, R Morris, B Chen, J Jannotti, MF ... - ACM Transactions on Computer Systems (TOCS), 2000 - portal.acm.org
... the Click IP router to handle specialized routing **tasks**, or use ... **priority** levels;
—fairness among the connections within each **priority level**; —RED dropping ...
Cited by 908 - Related articles - Web Search - Library Search - BL Direct - All 87 versions

System and method for dynamic resource management across tasks in real-time operating systems
D Culbert - US Patent 5,838,968, 1998 - Google Patents
... Backing Store: A reserved location in any of physical memory, disk drive, or
off-line storage used by the **operating system** to save **task** context state when the ...
Cited by 24 - Related articles - Web Search - All 2 versions

[PS] ·**Operating system** support for coexistence of real-time and conventional scheduling
DB Golub, CARNEGIE-MELLON UNIV PITTSBURGH PA ... - 1994 - reports-archive.adm.cs.cmu.edu
... real-time applications to make full use of the hardware and **operating system**. ... policies
use an array of 32 queues, one per **priority level**. ... **Task** priority values: ...
Cited by 24 - Related articles - View as HTML - Web Search - Library Search - All 3 versions

Rate monotonic vs. EDF: Judgment day- ·sssup.it [PDF]
GC Buttazzo - Real-Time Systems, 2005 - Springer
... by assigning each **task** a fixed **priority level** inversely proportional ... deadline management
at the **task** level, because ... trend in some recent **operating system** is to ...
Cited by 127 - Related articles - Web Search - BL Direct - All 19 versions

Compiler support for software-based cache partitioning- ·kfupm.edu.sa [PDF]
F Mueller - ACM Sigplan Notices, 1995 - portal.acm.org
... for n **tasks**, it suffices to create p partitions, one for each used **priority level**. ...
The **operating system** can be handled as a separate **task** with its own cache ...
Cited by 61 - Related articles - Web Search - BL Direct - All 12 versions

Information processing system having power saving control of the processor clock
N Suzuki, S Uno - US Patent 5,189,647, 1993 - Google Patents
... 57] ABSTRACT An information processing system operates under a multi-tasking **operating**
system in which each **task** to be run is assigned a **priority level**. ...
Cited by 30 - Related articles - Web Search - All 2 versions

Worst-case execution time analysis of the RTEMS real-time operatingsystem- ·psu.edu [PDF]
A Colin, I Puaut, R IRISA - Real-Time Systems, 13th Euromicro Conference on, 2001 , 2001 - ieeexplore.ieee.org
... **operating system** is that it contains low level code to manage the underlying hardware ...
the source code of RTEMS, all system calls related to **task** man- agement ...
Cited by 52 - Related articles - Web Search - All 11 versions

High-performance **operating system** primitives for robotics and real-time control systems- stevens-tech.edu [PDF]

K Schwan, T Bihari, BW Weide, G Taulbee - ACM Transactions on Computer Systems (TOCS), 1987 - portal.acm.org

... reconfiguration [2, 31, 371. Similarly, **operating system** primitives for **task** control,
intertask communication, and device operation are needed. ...

Cited by 58 - Related articles - Web Search - Library Search - All 12 versions

Apparatus and method for interrupt handling in a multi-threaded **operating system** kernel

SR Kleiman - US Patent 5,515,538, 1996 - Google Patents

... threads for the entire interrupt processing **task**, and as ... the blocked thread give
its dispatching **priority level** to the ... of the SunOS 5.0 **Operating System** may be ...

Cited by 54 - Related articles - Web Search - All 2 versions

Engineering and analysis of fixed priority schedulers

DI Katcher, H Arakawa, JK Strosnider - IEEE Transactions on Software Engineering, 1993 - ieeexplore.ieee.org

... implementations, we must firstly understand the mechanisms of the **operating system**
and the ... 4) An idle **task** runs at the lowest **priority level** when no other ...

Cited by 167 - Related articles - Web Search - BL Direct - All 6 versions

[PDF] ·TrueTime: Real-time control system simulation with MATLAB/Simulink

D Henriksson, A Cervin, KE Årzén - Proceedings of the Nordic MATLAB Conference, Copenhagen, ..., 2003 - control.lth.se

... The **operating system** typically uses multipro- gramming to multiplex the execution ...
much the same way as a **task**, but is scheduled on a higher **priority level** ...

Cited by 37 - Related articles - View as HTML - Web Search - All 2 versions

SIFT: Design and analysis of a fault-tolerant computer for aircraft control

JH Wensley, L Lamport, J Goldberg, MW Green, KN ... - Proceedings of the IEEE, 1978 - ieeexplore.ieee.org

... The input data to each iteration of a **task** is the output data produced by the previous
iteration of some collection of **tasks** (which may include the **task** itself ...

Cited by 374 - Related articles - Web Search - All 6 versions

Priority in DBMS resource scheduling- psu.edu [PDF]

MJ Carey, R Jauhari, M Livny - Proceedings of the 15th VLDB Conference, 1989 - books.google.com

... Here, **task** priorities are determined internally (ie, assigned by ... schedules the CPU;
the **operating system** or DBMS ... is one queue per **priority level** for buffering ...

Cited by 151 - Related articles - Web Search - Library Search - All 6 versions

[PDF] ·Generalized rate-monotonic scheduling theory: A framework for developing real-time systems

L Sha, R Rajkumar, SS Sathaye - PROCEEDINGS-IEEE, 1994 - cs.ust.hk

... in our example as the station backplane and **operating system**, respectively. ... Section
V describes a comprehensive example that illustrates **task** scheduling within ...

Cited by 201 - Related articles - View as HTML - Web Search - All 4 versions

[PDF] ·Timing analysis for fixed-priority scheduling of hard real-time systems

MG Harbour, MH Klein, JP Lehoczky - IEEE Transactions on Software Engineering, 1994 - ctr.unican.es

... premise since periodic **tasks** are generally initiated by clock interrupt service
routines, which usually execute at a **priority level** different from the **task**. ...

Cited by 131 - Related articles - View as HTML - Web Search - BL Direct - All 5 versions

Feasibility analysis of fault-tolerant real-time **task** sets

A Burns, R Davis, S Punnekkat - Real-Time Systems, 1996. Proceedings of the Eighth ..., 1996 - ieeexplore.ieee.org

... has been extended to take account of the **operating system** kernel overheads ... by simple
re-execution of the affected **task** at its ori- ginal **priority level**. ...

Cited by 65 - Related articles - Web Search - All 5 versions

The design, implementation and evaluation of SMART: A scheduler for multimedia applications- ktupm.edu.sa [PDF]

J Nieh, MS Lam - ACM SIGOPS Operating Systems Review, 1997 - portal.acm.org

... give interactive and real-time **tasks** bet- ter ... of the scheduler in the Solaris UNIX
operating system. ... the applications in the default **priority level** with equal ...

Cited by 288 - Related articles - Web Search - Library Search - BL Direct - All 43 versions

Open system architecture modular tool kit for motion and machining process control

NA Erol, Y Altintas, MR Ito, SS Inc, BC Burnaby - IEEE/ASME transactions on mechatronics, 2000 - ieeexplore.ieee.org

... moved to the ready queue in accordance with its **priority level**. ... be considered to
be a soft real-time **operating system**. ... time is not adequate, the **task** does not ...

Cited by 31 - Related articles - Web Search - BL Direct - All 3 versions

[PDF] ·ERCOS: an **operating system** for automotive applications

S Poledna, T Mocken, J Schemann, T Beck - 1996 - cs.umbc.edu

... also possible to implement switching points by **operating system** calls ... cooperative
scheduler is treated as a single **task** at the lowest **priority level** of the ...

Cited by 22 - Related articles - Web Search - Library Search - All 4 versions

[PDF] ·Sources of unbounded priority inversions in real-time systems and a comparative study of possible ...

S Davari, L Sha, Research Institute for Computing ... - ACM SIGOPS Operating Systems Review, 1992 - nrs.nasa.gov

... inversion is the term used to describe the situation when a higher priority **task's**
execution ... However, when there is resource conflict, a **task** is allowed ...

Cited by 26 - Related articles - View as HTML - Web Search - Library Search - All 5 versions

[PDF] ·BERT: A scheduler for best effort and realtime tasks

A Bavier, L Peterson, D Mosberger - Department of Computer Science, Princeton University, ... - citeseerx.ist.psu.edu

... BERT has been designed to run in the Scout **operating system** [9]; Section 3.1 ... a "common
currency" managing both realtime and best effort **tasks**; Section 3.2 ...

Cited by 46 - Related articles - View as HTML - Web Search - All 9 versions

New results on fixed priority aperiodic servers- ·psu.edu [PDF]

G Bernat, A Burns - Real-Time Systems Symposium, 1999. Proceedings. The 20th ..., 1999 - ieeexplore.ieee.org

... provides a standard API to the **operating system**, of particular ... this hypothesis allowing
a server at any **priority level**. ... A **task** scheduled with a DS has its ...

Cited by 49 - Related articles - Web Search - All 11 versions

[PDF] ·Emeralds-osek: A small real-time **operating system** for automotive control and monitoring

KM Zuberi, P Pillai, KG Shin, T Imai, W Nagaura, S ... - SAE transactions, 2000 - stockholm1.mit.edu

... Interrupt handling is an important part of any **operating system**, but takes ... BCC1 and
ECC1 are limited to having only one **task** per **priority level**, while BCC2 ...

Cited by 12 - Related articles - View as HTML - Web Search - BL Direct - All 9 versions

How does control timing affect performance? Analysis and simulation of timing using Jitterbug and ...- ·lth.se [PDF]

A Cervin, D Henriksson, B Lincoln, J Eker, KE ... - IEEE Control Systems Magazine, 2003 - ieeexplore.ieee.org

... inter- faces). The **operating system** typically uses multi- programming to
multiplex the execution of the various **tasks**. The CPU time ...

Cited by 133 - Related articles - Web Search - BL Direct - All 8 versions

Toward a discipline of real-time programming- ·eurecom.ru [PDF]

N Wirth - 1977 - portal.acm.org

... The first step constitutes a **task** in "ordinary" multipro- gramming with -more or ...
essence is that the shared processor, when operating at **priority level** p, is ...

Cited by 147 - Related articles - Web Search - All 10 versions

Guidelines for automated implementation of executable objectoriented models for real-time embedded ...- ·kfupm.edu.sa [PDF]

M Saksena, P Freedman, P Rodziewicz - Real-Time Systems Symposium, 1997. Proceedings., The 18th ..., 1997 - ieeexplore.ieee.org

... on thread priorities and the scheduling of threads by the underlying **operating system**. ...
recursively considering the output event set for the **tasks** handling the ...

Cited by 58 - Related articles - Web Search - All 10 versions

A simple load balancing scheme for **task** allocation in parallel machines- ·kfupm.edu.sa [PDF]

L Rudolph, M Slivkin-Allalouf, E Upfal - Proceedings of the third annual ACM symposium on Parallel ..., 1991 - portal.acm.org

... levels can be implemented with the schemes presented here used within each distinct
priority level. Since **tasks** may closely interact and since there may ...

Cited by 98 - Related articles - Web Search - All 10 versions

Power-aware QoS management in web servers- ·virginia.edu [PDF]

V Sharma, A Thomas, T Abdelzaher, K Skadron, Z Lu - 24th IEEE Real-Time Systems Symposium, 2003, RTSS 2003, 2003 - ieeexplore.ieee.org

... FIFO enables FIFO scheduling within each **priority level** with preemp ... to use the standard
Linux **operating system** and a ... rameters like the arrival time of the **task**. ...

Cited by 84 - Related articles - Web Search - All 17 versions

POSIX-compatible application-defined scheduling in MaRTE OS- ·unican.es [PDF]

MA Rivas, MG Harbour - ieeexplore.ieee.org

... by a faulty scheduler executing at a lower **priority level**. ... are also scheduled by
the **operating system**, but before they ... The CBS assigns each soft **task** a maximum ...

Cited by 39 - Related articles - Web Search - All 9 versions

The Stealth distributed scheduler

P Krueger, R Chawla - Distributed Computing Systems, 1991., 11th International ..., 1991 - ieeexplore.ieee.org

... While prioritized CPU schedulers are common, no previous **operating system** has included ...
way, pages can be 'stolen' from the low-**priority level** if needed a ...

Cited by 120 - Related articles - Web Search - All 3 versions

[CITATION] Multimedia/realtime extensions for the Mach **operating system**

J Nakajima, M Yazaki, H Matsumoto - Proceedings of the... USENIX Conference, 1991 - The Association

Cited by 26 - Related articles - Web Search

An overview of the real-time CORBA specification- ·klupm.edu.sa [PDF]

DG Schmidt, F Kuhns - Computer, 2000 - ieeexplore.ieee.org

... (In the figure, red indicates the **operating system** and I ... such as high- versus
low-priority **tasks**, 1 and ... the amount of work performed at a given **priority level**. ...

Cited by 238 - Related articles - Web Search - BL Direct - All 59 versions

Method and apparatus for optimizing user response time in a priority preemptive **operating system**

TC Waldron III - US Patent 5,428,789, 1995 - Google Patents

... indicator displaying a **task priority level** in accordance with policies of said priority
pre-emptive **operating system**, said **task priority level** corresponding to ...

Cited by 10 - Related articles - Web Search - All 2 versions

A fixed-priority-driven open environment for real-time applications- ·gatech.edu [PDF]

TW Kuo, CH Li - Real-Time Systems Symposium, 1999. Proceedings. The 20th ..., 1999 - ieeexplore.ieee.org

... A 0 . The scheduler provided by the **operating system** is called the OS ... the priority
of the **task** which is executing ... A **priority level** P i is active if P s P i . A ...

Cited by 40 - Related articles - Web Search - All 10 versions

Evolving Mach 3.0 to a migrating thread model- ·psu.edu [PDF]

B Ford, J Lepreau - Proceedings of the Winter 1994 USENIX Technical Conference ..., 1994 - usenix.org

... guarantee in practice, especially if any user-mode can set ... expect migratingthreads
to simplifythe server, because the original **operating system** on which ...

Cited by 116 - Related articles - Web Search - All 11 versions

Dynamic scheduling for soft real-time distributed object systems- ·ucr.edu [PS]

V Kalogeraki, PM Melliar-Smith, LE Moser - Third IEEE International Symposium on Object-Oriented Real- ..., 2000 - ieeexplore.ieee.org

... Local Scheduler Profiler Processor Local Dispatcher **OPERATING SYSTEM** CORBA
ORB CORBA ORB **Task** graph Figure 1: The Scheduling Components. ...

Cited by 39 - Related articles - Web Search - All 5 versions

Cello: A Disk Scheduling Framework for Next Generation Operating Systems*- ·psu.edu [PDF]

P Shenoy, HM Vin - Real-Time Systems, 2002 - Springer

... applications: These applications require the **operating system** to provide ... These two
tasks naturally map to a ... classes at the same **priority level** receive service ...

Cited by 211 - Related articles - Web Search - BL Direct - All 18 versions

Controlled scheduling of program threads in a multitasking **operating system**
JA Farrell, SE Record, BK Wade - US Patent 5,630,128, 1997 - Google Patents
... gram threads performs a specific **task** While a ... resides in a multitasking **operating
system** the thread ... each thread's **priority level** and dispatch class in which ...
Cited by 18 - Related articles - Web Search - All 4 versions

[PDF] ·Adding instruction cache effect to schedulability analysis of preemptive real-time systems
JV Busquets-Mataix, JJ Serrano, R Ors, P Gil, A ... - 1995 - citeseerx.ist.psu.edu
... real traces, and takes into account the **operating system** im- pact ... ie **tasks** do not
share the same **priority level**). ... time for the highest priority **task** is trivial ...
Cited by 82 - Related articles - View as HTML - Web Search - Library Search - All 10 versions

Rate monotonic analysis for real-time systems- ·cmu.edu [PDF]
L Sha, MH Klein, JB Goodenough - Foundations of Real-Time Computing: Scheduling and Resource ..., 1991 - books.google.com
... theory for its Hard Real-Time **Operating System** Project. ... the execution of higher priority
tasks, **task** T executes at the highest **priority level** of all ...
Cited by 80 - Related articles - Web Search - Library Search - All 8 versions

·POWER5 system microarchitecture
B Sinharoy, RN Kalla, JM Tendler, ... - IBM Journal of Research and Development, 2005 - research.ibm.com
... To the **operating system**, the chip appears as a four ... **task** than to a thread running
a background **task** ... threads are at the lowest running **priority** (**level** 1), the ...
Cited by 108 - Related articles - Cached - Web Search - BL Direct - All 6 versions

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... indicator of the "default" speed of 5 6 . For each **task** that is dispatched, the
operating system sets E 6 G Ei6 , prior to any dynamic speed adjustment. ...
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... The **operating system** schedulers distinguish between large, parallel ... Typically,
a **task's** importance is represented by the **priority level** it is ...
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... 1: The Human-Robot Interaction **Operating System** (HRI/OS ... working (ie, waiting for
a **task** to be ... by query attributes (**priority level**, expiration time, etc.), query ...
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... The ARTS **operating system** supports the scheduling theory de- scribed in ... capacity
and executes at the **priority level** of the highest priority periodic **task**. ...
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Priority inheritance in soft real-time databases
J Huang, JA Stankovic, K Ramamritham, D Towsley, B ... - Real-Time Systems, 1992 - Springer
... eventually returns to its original **priority level** after releasing ... embedded real-time
systems where **task** conflicts over ... on top of the VAX/VMS **operating system**. ...
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G Lamastra, G Lipari, G Buttazzo, A Casile, F ... - Proceedings Fourth International Workshop on Real-Time .... 1997 - ieeexplore.ieee.org

... of the kernel, the Linux **operating system** is used as ... in three queues having different **priority level**: the highest ... queue contains all hard **tasks** (both periodic ...

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Task scheduling in a multicomputer system

DF Cameron, TE Merrow, PR Pierce - US Patent 5,325,526, 1994 - Google Patents

... 28, 1994 [54] **TASK** SCHEDULING IN A MULTICOMPUTER SYSTEM [75] Inventors: Donald F. Cameron; Thomas E. Merrow; Paul R. Pierce, all of Portland, Oreg. ...

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H Schulzrinne - Multimedia Systems, 1996 - Springer

... The **priority level** is adjusted only if a process exhausts ... and Layland show that, for periodic **tasks**, n ... EDF scheduling within the UNIX **operating system** has been ...

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Reducing problem-solving variance to improve predictability

CJ Paul, A Acharya, B Black, JK Strosnider - 1991 - portal.acm.org

... Using **operating system** primitives, CROPS5 can run at any **priority level** while still guaranteeing dead- lines of other **tasks** in the system. ...

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... time applications, a real-time **operating system** ought to ... a synergistic manner, the needs of **tasks** having a ... class of its process and the **priority level** of the ...

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Task control means for a multi-tasking data processing system

PY Teng - US Patent 4,658,351, 1987 - Google Patents

... is stored in a **task** queue corresponding to the **task's priority level**. ... of the **task** control blocks in a **task** queue ... Q. OL <f s 4i w_* Si < V **OPERATING SYSTEM** 0 u ...

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... Most general-purpose **operating system** processor sched- ulers just provide fair sharing of the CPU among competing **tasks**, with limited support for different ...

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BP Dave, NK Jha - Design, Automation and Test in Europe, 1998. Proceedings, 1998 - ieeexplore.ieee.org

... Embedded system specifications are generally represented by acyclic **task** graphs. ... Many researchers have addressed co-synthesis of periodic **task** graphs. ...

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RA Volz - deepblue.lib.umich.edu

... the scheduler in a real-time **operating system** [3]. In ... maintain several priority queues, one for each **priority level**. ... at the priority of the **task** (presumed to ...

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DG Carson, HD D'hooge, KC Kahn - US Patent 5,283,904, 1994 - Google Patents

Page 1. US005283904A United States Patent Carson et al. [ii] Patent Number: [45] Date of Patent: 5,283,904 Feb. 1, 1994 [54] MULTI ...

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... compresses a classic multithreaded layered **operating system** design into ... tail pointers
for each **priority level** (5 by ... the hardware to accomplish a given **task**. ...
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... Moreover, the problem of predicting schedulability of peri- odic **task** systems using
this technique does not appear to have been formally addressed. ...
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HRT-HOOD: A structured design method for hard real-time systems - york.ac.uk [PDF]
A Burns, AJ Wellings - Real-Time Systems, 1994 - Springer
... construct periodic activities out of some more primitive "**task**" activity produces ...
for the implementation language and the underlying **operating system** (or kernel ...
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Mechanism for passing messages between several processors coupled through a shared intelligent ...
H Alaiwan - US Patent 5,357,612, 1994 - Google Patents
... the requested input, and the **priority level** of other ... to be retrieved by a **task** that
will ... MOS functions decomposition, every Local **Operating system** manages its ...
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YH Lee, KP Reddy, CM Krishna - Real-Time Systems, 2003. Proceedings. 15th Euromicro ... 2003 - ieeexplore.ieee.org
... by any soft **task** executing at a **priority level** in the ... mode must be done gracefully
under **operating system** control ... **Task** periods are selected from the range 10 ms ...
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Method and apparatus for providing an enhanced programmable priority interrupt controller
M Jayakumar - US Patent 5,511,200, 1996 - Google Patents
... to be able to change the **priority level** at which ... example, the Microsoft Windows NT
Operating System utilizes thirty ... be assigned to any device or **task** are widely ...
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H Härtig, M Hohmuth, J Liedtke, S Schönberg, J ... - 16th ACM Symposium on **Operating System** Principles (SOSP), 1997 - inso.tuwien.ac.at
... problem of porting an existing mono- lithic **operating system** to a μ ... the bottom-half
thread on a **priority level** above that ... is im- plemented as an L4 **task**, ie an ...
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... kernel and requires that the hosted **operating system** be ported ... No other processes
at this **priority level** are allowed ... Since a **task** can miss its deadline only at ...
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... can be used to implement Ada **tasks** or to ... Few **Operating System** Calls: Since calls
to the operating systems ... handlers have to execute at the **priority level** of the ...
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CW Mercer, H Tokuda - Real-Time Systems Symposium, 1990. Proceedings., 11th, 1990 - ieeexplore.ieee.org
... model is more appropriate for a real-time **operating system**. ... allow the system to manage
the **task** set in ... thread priority is raised to the **priority level** of the ...
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... **operating system**. Thus, we assign and manage **tasks**' priorities explicitly inside
our server, while providing the users with the abil- ity to specify **task** timing ...
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Power-aware scheduling for periodic real-time tasks- ›pitt.edu [PDF]

H Aydin, R Melhem, D Mosse, P Mejia-Alvarez - IEEE Transactions on Computers, 2004 - ieeexplore.ieee.org
... the application code, in order to call explicitly **Operating System** services for ... CPU
time (slack) to the first **task** at the appropriate **priority level**, in a ...
Cited by 127 - Related articles - Web Search - BL Direct - All 18 versions

Key authors: **A Burns** - **M Barabanov** - **L Sha** - **R Davis** - **J Lehoczky**

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